In the claims:

(Currently amended) A method for determining the prognosis of a patient with breast cancer, the method comprising assigning a prognosis to the patient by obtaining an expression profile of nucleic acid products of a prognostic set of genes from a breast tumor sample of said patient, said sample comprising SEQ ID NOS: 1-13, comparing the expression profile of said patient with a previously determined standard expression signature profile which is of known prognoses, wherein the prognostic set of genes comprises adenine phosphoribosyltransferase (SEQ ID NO: 1), MCM4 minichromosome maintenance deficient 4 (S. cerevisiae) (SEQ ID NOS: 2-5), exonuclease 1 (SEQ ID NOS: 6-11), Metallothionein 1H-like protein (SEQ ID NO: 12), and clone IMAGE:5270727 (SEQ ID NO:13), and assigning the breast tumour sample as being of either high NPI (NPI value at least or greater than a cut-off value of 3.8 to 4.6) or low NPI (NPI value < the cut-off value of 3.8 to 4.6), and wherein an upregulation of the nucleic acid expression products of adenine phosphoribosyltransferase, MCM4 minichromosome maintenance deficient 4 (S. cervisiae), exonuclease 1, Metallothionein 1H-like protein, and clone IMAGE: 5270727 is indicative of high NPI or a poor prognosis, and wherein a downregulation of nucleic acid expression products of adenine phosphoribosyltransferase, MCM4 minichromosome maintenance deficient 4 (S. cervisiae), exonuclease 1, Metallothionein 1H-like protein, and clone IMAGE: 5270727 is indicative of a low NPI or a good prognosis; said method optionally comprising the step of determining at least one status selected from the group consisting of estrogen receptor (ER) status and Erb2 status of the tumour sample.

Claims 2 - 4 (Cancelled)

- 5. (Previously presented) The method of claim 1 comprising the steps of:
- (a) obtaining a breast tumour sample from the patient; and
- (b) measuring the levels of said nucleic acid expression products in the sample, thereby obtaining an expression profile.
- 6. (Previously presented) The method of claim 5 wherein step (b) comprises contacting said nucleic acid expression products obtained from the sample with a plurality of binding members capable of binding to said nucleic acid expression products, wherein such binding may be measured.
- 7. (Previously presented): The method of claim 6 wherein the binding members are complementary nucleic acid sequences.

Claims 8 - 10 (Cancelled)

- 11. (Previously presented): The method of claim 1 further comprising comparing the expression profiles of the prognostic set of genes in the breast tumour sample before and after treatment to detect a change in the expression profile indicative of an improved prognosis or worsened prognosis.
- 12. (Currently Amended): An apparatus for assigning a prognosis to a breast tumour sample, which apparatus comprises a solid support to which are attached a plurality of nucleic acid binding members, each binding member being capable of specifically and independently binding to an expression product of one of a prognostic set of genes, wherein the prognostic set of genes includes consists of adenine phosphoribosyltransferase (SEQ ID NO: 1), MCM4 minichromosome maintenance deficient 4 (S. cerevisiae) (SEQ ID NOS: 2-5),

exonuclease 1 (SEQ ID NOS: 6-11), Metallothionein 1H-like protein (SEQ ID NO: 12), and clone IMAGE: 5270727 (SEQ ID NO: 13.

13. (Cancelled):

14. (Previously presented): An apparatus for assigning a prognosis to a breast tumour sample, which apparatus comprises a solid support to which are attached a plurality of nucleic acid binding members, each binding member being capable of specifically and independently binding to an expression product of one of a prognostic set of genes, wherein the prognostic set includes adenine phosphoribosyltransferase (SEQ ID NO: 1), MCM4 minichromosome maintenance deficient 4 {S. cerevisiae) (SEQ ID NOS: 2-5), exonuclease 1 (SEQ ID NOS: 6-11), Metallothionein 1H-like protein (SEQ ID NO: 12), and clone IMAGE: 5270727 (SEQ ID NO: 13), and wherein said solid support houses nucleic acid binding members for not more than 500 different genes and the solid support has attached thereto only binding members that are capable of specifically and independently binding to expression products of the nucleic acids encoded by SEQ ID NOS: 1- 309.

Claim 15 (Cancelled)

16. (Currently Amended): A kit for assigning a prognosis to a patient with breast cancer, said kit comprising a plurality of nucleic acid binding members capable-of which specifically binding to nucleic acid expression products of genes of a prognostic set of genes and a detection reagent, wherein the prognostic set of genes includes consists of adenine phosphoribosyltransferase (SEQ ID NO: 1), MCM4 minichromosome maintenance deficient 4 (S. cerevisiae) (SEQ ID NOS: 2-5), exonuclease 1 (SEQ ID NOS: 6-11), Metallothionein 1H-like protein (SEQ ID NO: 12), and clone IMAGE: 5270727 (SEQ ID

NO:13), wherein said kit optionally comprises the apparatus of claim 12 and comprises less than 500 binding members.

Claim 17 (Cancelled)

- 18. (Previously presented): The kit of claim 16, further comprising a data analysis tool, wherein the data analysis tool is a computer program.
- 19. (Previously presented): The kit of claim 18 wherein the data analysis tool comprises an algorithm adapted to discriminate between the expression profiles of tumours with differing prognoses.
- 20. (Previously presented): The kit of claim 16 comprising expression profiles from breast tumour samples with known prognoses and/or expression profiles characteristic of a particular prognosis.

Claim 21 (Cancelled)

Claim 22 (Currently Amended): A kit for assigning a prognosis to a patient with breast cancer, said kit comprising a no more than 500 nucleic acid binding members capable of which specifically binding to nucleic acid expression products of genes of a prognostic set of genes and a detection reagent, wherein the prognostic set of genes consists of includes adenine phosphoribosyltransferase (SEQ ID NO: 1), MCM4 minichromosome maintenance deficient 4 (S. cerevisiae) (SEQ ID NOS: 2-5), exonuclease 1 (SEQ ID NOS: 6-11), Metallothionein 1H-like protein (SEQ ID NO: 12), and clone IMAGE: 5270727 (SEQ ID NO: 13), wherein said binding members are nucleotide primers capable of binding to the nucleic acid expression products of the genes of the prognostic set such that the nucleic acid expression products can be amplified by PCR.

- 23. (Currently Amended): A method of producing a nucleic acid expression profile for a breast tumour sample comprising the steps of
- (a) isolating nucleic acid expression products from said breast tumour sample, said sample comprising SEQ ID NOS: 1-13;
- (b) identifying expression levels of a prognostic set of genes, wherein the prognostic set of genes comprises consists of adenine phosphoribosyltransferase (SEQ ID NO: 1), MCM4 minichromosome maintenance deficient 4 (S. cerevisiae) (SEQ ID NOS: 2-5), exonuclease 1 (SEQ ID NOS: 6-11), Metallothionein 1H-like protein (SEQ ID NO: 12), and clone IMAGE: 5270727 (SEQ ID NO: 13); and
- (c) producing from the expression levels an expression profile for said breast tumour sample.

Claim 24 (Cancelled)

- 25. (Previously presented): The method of claim 23 comprising adding the expression profile to a gene expression profile database.
- 26. (Previously presented): The method of claim 23 further comprising comparing the expression profile with a second expression profile or a plurality of second expression profiles characteristic of a particular prognosis.
- 27. (Previously presented): The method of claim 26, comprising the steps of:
- (a) isolating nucleic acid expression products from a first breast tumour sample; contacting said expression products with a plurality of binding members capable of specifically and independently binding to expression products of the prognostic set of genes; and creating a first expression profile of the prognostic set of genes in the

tumour sample;

- (b) isolating nucleic acid expression products from a second breast tumour sample of known prognosis and known NPI status; contacting said expression products with a plurality of binding members capable of specifically and independently binding to expression products of the prognostic set of genes of step (a), so as to create a comparable second expression profile of a breast tumour sample; and
- (c) comparing the expression profiles from said first and second expression profiles to determine the NPI status and prognosis of the first breast tumour sample, wherein comparable levels of expression products in said first and second samples indicate the prognosis for the patient from which said first sample was obtained.

Claims 28-37 (Cancelled)

38. (Previously presented) The method of claim 27, wherein the known prognosis and known NPI status comprises a known NPI value.